CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CUBE/2021-22 29.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.03.2022
Report Issue Date	:	29.03.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.03.2022	29.03.2022	8.298	615.6	27.36
2	01.03.2022	29.03.2022	8.333	623.6	27.72
3	01.03.2022	29.03.2022	8.402	630.8	28.04

*Information is furnished by the Customer/Representative.

Note:

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⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CUBE/2021-22

30.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	30.03.2022
Report Issue Date	:	30.03.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.03.2022	30.03.2022	8.201	629.7	27.99
2	02.03.2022	30.03.2022	8.390	638.4	28.37
3	02.03.2022	30.03.2022	8.415	613.3	27.26

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Pooja K. L.

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CUBE/2022-23

04.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Culvert Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.04.2022
Report Issue Date	:	04.04.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.03.2022	04.04.2022	8.110	613.6	27.27
2	07.03.2022	04.04.2022	8.280	620.4	27.57
3	07.03.2022	04.04.2022	8.158	630.8	28.04

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CUBE/2022-23 07.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Culvert Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.04.2022
Report Issue Date	:	07.04.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.03.2022	07.04.2022	8.226	605.2	26.90
2	10.03.2022	07.04.2022	8.354	612.3	27.21
3	10.03.2022	07.04.2022	8.190	602.8	26.79

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/CUBE/2022-23

15.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of the work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	RCC Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{25}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	15.04.2022
Report Issue Date	:	15.04.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2022	15.04.2022	8.110	610.4	27.13
2	18.03.2022	15.04.2022	8.249	632.6	28.12
3	18.03.2022	15.04.2022	8.128	648.7	28.83

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/BTHR/W.No.12/CSR-42m/Precast Slab/2021-22 09.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample	:	Precast Slab - 100MM Thick
*Grade of Concrete	:	M_{25}
Sample Received on	:	07.03.2022
Date of Testing	:	09.03.2022
Report Issue Date	:	09.03.2022

SL. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	67.00	113.00	0.986	2474.91	1.69	0.966	145.20	19.50	20.67	21.41	26.76
2	67.00	116.00	0.990	2420.68	1.73	0.970	150.65	19.65	20.83	21.46	26.83
3	67.00	118.00	0.989	2377.25	1.76	0.974	141.25	20.15	21.36	21.94	27.42

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Job No.: CTCE/BBMP/BTHR/W.No.12/GSB-5/GR/2022-23 21.05.2022

TEST REPORT ON GRADATION FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	GSB-(Grading V)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2020), MORTH 400-1
Date of Testing	:	21.05.2022
Report Issue Date	:	21.05.2022

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75.0	0	0	0.00	100	100
53.0	360	360	7.20	92.80	80-100
26.50	1210	1570	31.40	68.60	55-90
9.50	990	2560	51.20	48.80	35-65
4.75	980	3540	70.80	29.20	25-50
2.36	870	4410	88.20	11.80	10-20
0.850	255	4665	93.30	6.70	2-10
0.425	165	4830	96.60	3.40	0-5
PAN	170				
Total	5000				

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Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

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Job No.: CTCE/BBMP/BTHR/W.No.12/GSB-5/GR/2022-23 21.05.2022

TEST REPORT ON GRADATION FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	GSB-(Grading V)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2020), MORTH 400-1
Date of Testing	:	21.05.2022
Report Issue Date	:	21.05.2022

Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
75.0	0	0	0.00	100	100
53.0	370	370	7.40	92.60	80-100
26.50	1240	1610	32.20	67.80	55-90
9.50	960	2570	51.40	48.60	35-65
4.75	945	3515	70.30	29.70	25-50
2.36	880	4395	87.90	12.10	10-20
0.850	270	4665	93.30	6.70	2-10
0.425	120	4785	95.70	4.30	0-5
PAN	215				
Total	5000				

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No : CTCE/BBMP/BTHR/W.No.12/GSB-5/AL/2021-22 Date: 21.05.2022

TEST REPORT ON ATTERBERG LIMITS TEST FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	GSB-(Grading V)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2020), MORTH 400-1
Date of Testing	:	21.05.2022
Report Issue Date	:	21.05.2022

Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Requirement as per MORTH
1	Liquid Limit, %	23.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, GSB-(Grading V)

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Job No.: CTCE/BBMP/BTHR/W.No.12/GSB-5/AL/2021-22 Date 21.05.2022

TEST REPORT ON ATTERBERG LIMITS TEST FOR GRANULAR SUB BASE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.T.Hanumantha Raju,** H.No.1334, Anjanadri, 7th Main, 11th Cross, WOC, 2nd Stage, Mahalakshmipuram, Bangalore – 560086.
* Name of work	:	Improvements to Roads Kempegowda Garden and surrounding area in Ward No.12, Shettyhalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/87/2021-22 Dated : 04.02.2022
* Sample ID	:	GSB-(Grading V)
Test Method as per	:	IS - 2720 (Part 4) : 1985 (RA-2020), MORTH 400-1
Date of Testing	:	21.05.2022
Report Issue Date	:	21.05.2022

Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Requirement as per MORTH
1	Liquid Limit, %	23.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, GSB-(Grading V)

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

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